

TARC News

Volume 2 ISSUE 11 July 2023

Publisher, Tom Fuller

Editor Tom Fuller



Field Day 2023



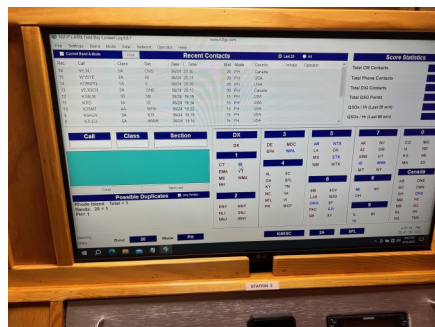
Field Day

Another great Field Day this year. We were plagued with power issues as the generator appears to be giving up on us.

I want to thank Marty KJ4LQX for allowing us to use his Hex Beam antenna, and also for turning us on to some new logging software.

Potluck dinner as usual with lots of food for everyone.

Dave AD6Q had his FT8 equipment setup and answered questions both days for anyone interested in digital modes.



A Broader View of Tropospheric Ducting

Several months ago, on the 146.970 repeater, there was chat regarding the 10M net and someone mentioned that Washington DC was heard or checked in via ducting. Sporadic E skip could easily account for it; not tropospheric ducting. I wasn't sure beyond a reasonable doubt at that time. I've participated in 2M ducting from a Suburban Boston repeater to a repeater way up in Bangor Maine. (Aye-uhh as they say down-east in Maine). It was impressive, coastal, and full-quieting.

Arguably, amateur radio's favorite ham, the venerable Gordon West, has a captivating YouTube ducting presentation both in 29- and 50-minute forms. Please find time for him. His talk is just terrific and will give you the broader view of ducting:
<https://www.youtube.com/watch?v=uY2QunXXNPE>

Gordon West To The Rescue

To entice you to Gordon's outstanding presentation with a few spoiler alerts, some bullet points of his talk include:

- It's a weather and not an ionospheric phenomenon and he describes the ducting-structure recipe.
- Gordon explains how cold air below gets trapped by warmer air in the middle (the inversion layer) and then the normal cold air above that – making a weather sandwich.
- He explains the precedence for ducting, and how the inversion layer acts as a wave guide.
- He describes some fantastic ducting between California and Hawaii.

So can there be 10M ducting? Well no, but read on anyway :-). If you stay with him, Gordon delightfully explains why not, but don't forget to come back here :-) as the rest is possibly doable.

I haven't experienced ducting in Florida (yet) unless the .96 repeater to one in Ocala counts?. If you have observed ducting from here, it would be interesting to hear of your experiences on our Facebook, nets, and/or monthly meetings.

A Witnessed and 'Mysterical' Cape Cod Bay Observation

The broader view, in a much different situation, a few friends and I witnessed a memorable *light-wave-frequencies* coastal occurrence. This ducting was on the Massachusetts Cape Cod Bay coast in Marshfield as shown below. Our location was at the green arrow, but pretend the point of the green arrow was an eighth of an inch lower. so we could just look out and see the Provincetown Monument :-)



We saw what could be the red rectangle described as a sort of film-strip negative only video. It resembled a semi-lighted causeway. You could see the headlights moving, a few buildings and a tree or three – all upside down. So it seems safe to assume one or an odd number of inversions.

If Gordon mentioned that a wave guide or ducting would not invert but rather just bend, I forgot, or missed it :-). The figure showing that we saw the mysterious imaging out over open ocean was very eerie to us. Also, I could have the angle between the monument and Boston a bit incorrect, but the 'mysterical' part still stands. Jan has some local Indian River image anomalies too. Please share any ducting experiences you have seen/heard.

Probably, for us locally, it would occur with the inversion layer from here and across the gulf to Texas? Finally, we are coming up on the July-September period with the best structure for ducting with an inversion layer in the Gulf showing up.

Cal Thomas K4BEW

June Minutes

The meeting was called to order at 7pm. The pledge was said and introductions made. Secretary and Treasure report were read and approved.

Acknowledgement of Silent Key Carol Ann Ramos passed June 12th. There will be a memorial at her house July 1st at 11AM. 80 N Holiday Lane Titusville.

Carol was an active up until recently and was the founder of the Mosquito Net.

New Business; Generator on the TARC trailer quite working Sunday at Field day and had been giving us power problems all weekend. We have another generator being donated to the club, much appreciated.

We had the 146.775 repeater in Mims struck by lightning. Dave KY4F made a suggestion to use the 146.91 repeater at Mims until we can get a replacement. Stephanie K4MVO, AA4HP Radio Sport Club has half the cost of a new repeater, and other donations by Barry and Dian Kennedy have also been given. Discussion was had to see if we can find ways to mitigate farther issues.

Also discussed that Tom KN4GLO and Barry N4NMF would like to pass on the responsibilities of President and Vice President at the next election, so please think about who you would like to become your new leaders.

Meeting Was adjourned.

Sally Fuller KN4HPX

Silent Keys

Carol Ann Ramos KC4VIN

Local Nets

Monday 7 PM 144.210
Net control George
WG4ES

Tuesday 7 PM 146.970
Sky Warn
Net control Barry
N4NMF

Wednesday 7 PM 28.333
USB
Mosquito
Net control Tom
KN4GLO

Thursday 7 PM 146.970
Friendship Traders

1

2

Name Tags

Barry Kennedy
N4NMF is taking
orders for name
tags. These are
very nice and come
in several different
designs.

Contact Barry at
n4nmf@outlook.com



Coming up in our monthly meetings

Month / Date:	Call Sign:	Name:	Topic of Discussion: (20 +/- Minute Presentation)	Contact info - email / Phone
JANUARY 24, 2023	KN4GLO	TOM	WINTER FIELD DAY SET UP DETAILS	TS0939@gmail.com
FEBRUARY 28, 2023	KN4GLO	TOM	MOSQUITO NET TAILGATE SET UP DETAILS	TS0939@gmail.com
MARCH 28, 2023	N4NMF	BARRY	NEW WEATHER STATION SET-UP AND OPERATION	N4NMF@outlook.com
APRIL 25, 2023	N4RKM	ROY	WINLINK	321-305-3992
MAY 23, 2023	KJ4IMP	JERRY	BREVARD REPEATER (S)	KJ4IMP@cfl.rr.com
JUNE 27, 2023	GENERAL DISCUSSION	MEMBER PARTICIPATION	ARRL FIELD DAY RESULTS AND RECOMMENDATIONS	ALL MEMBERS PARTICIPATION WELCOME
JULY 25, 2023	KG6RJW	Bob	AM DX	WienBob@aol.com
AUGUST 22, 2023	KN4QYS	GARY	FOLLOW UP CHOKE BRACKET	GPERRY1911@gmail.com
SEPTEMBER 26, 2023	KJ4IMP	JERRY	HISTORY OF GPS	KJ4IMP@cfl.rr.com
OCTOBER 24, 2023	GENERAL DISCUSSION	MEMBER PARTICIPATION	ANNUAL POT LUCK DINNER MEETING / NOMINATIONS	ALL MEMBERS PARTICIPATION WELCOME
NOVEMBER 28, 2023	GENERAL DISCUSSION	MEMBER PARTICIPATION	ANNUAL NOMINATIONS & ELECTIONS MEETING	ALL MEMBERS PARTICIPATION WELCOME
DECEMBER DATE TBA	GENERAL DISCUSSION	MEMBER PARTICIPATION	TARC CHRISTMAS PARTY - NO MEETING	ALL MEMBERS PARTICIPATION WELCOME



K4KSC.COM
Titusvillearc.com

We have a new Website, check it out



TARC Members

As you have heard in the meetings, and have seen during field day activities .. Our club equipment suffered some damage due to unforeseen events which is negatively affecting our operational capabilities. The 146.77 repeater is off the air due to an apparent lightning strike. Initial investigation show that the unit took a direct hit, and is a total loss. Additionally, there was multiple failures on the TARC trailer which rendered our portable operation center inoperable for a time during Field day. The necessity of barrowing a portable generator and rewiring the AC shore power cable to restore power, but repairs are needed.

The total cost of what we know about so far is in the vicinity of \$2000.00 and this will deplete our budget significantly.

Yearly dues only cover minimum operating expenses so we rely on donation for other expenditures.

If it is possible and would not impose an undue hardship on your household budget—please consider an emergency donation for these needed repairs. If our active membership were able to contribute \$40 each, it would make all this possible without draining our club funds.

Thank you for your ongoing support of the Titusville Amateur Radio Club.

You can make donations at club meetings or mail in to:
TitusvilleARC , PO Box 73 , Titusville FL. 32781

Thank you

JULY 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
		Sky Warn Net 7pm 146.97	Mosquito Net 7pm 28.333	Friendship Traders Net 7pm 146.97 Eating Meeting		
2	3	4 Sky Warn Net 7pm 146.97	5 Mosquito Net 7pm 28.333	6 Friendship Traders Net 7pm 146.97 Eating Meeting 5pm	7	8
9	10	11 Sky Warn Net 7pm 146.97	12 Mosquito Net 7pm 28.333	13 Friendship Traders Net 7pm 146.97 Eating Meeting 5pm	14	15
16	17	18 Club Meeting	19 Mosquito Net 7pm 28.333	20 Friendship Traders Net 7pm 146.97 Eating Meeting 5pm	21	22
23	24	25 Sky Warn Net 7pm 146.97	26 Mosquito Net 7pm 28.333	27 Friendship Traders Net 7pm Eating Meeting 5pm	28	29
30	31					